



the **ILLINOIS ENGINEER**



Report of National Director in This Issue



RAILROAD ENGINEERING—I. C. HUMP YARD, MARKHAM, ILL.

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Affiliated with the National Society of Professional Engineers

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Of Interest to I.S.P.E.

THE ILLINOIS ENGINEER—THIS MONTH

Let's Have The News

This is the Editor's periodic request for items of interest for publication in the ILLINOIS ENGINEER. This request is directed primarily to Chapter Officers and Committee men, but all members of the Society are concerned. Some Chapters are very faithful in reporting activities going on within their organization and their cooperation is greatly appreciated. Other chapters are not so good and as a matter of fact there are chapters which are never heard from. To those Chapters which have been sending in items of interest for publication in the magazine, this is a request to continue the good work. To the others we ask that you make a new start.

Remember that short items of general interest concerning the activities of your chapter, or of engineers in your locality, are always welcome. An occasional picture can be used. Furthermore, longer articles of engineering interest can also be used. Perhaps you or some from among your chapter membership would like to "speak his mind" on society affairs. One of the prime functions of the magazine is to give all members an opportunity to present their views to the entire membership.

We now have four Ladies Auxiliary Units. News concerning their activities will take on more and more of importance as time goes on. If a sufficient number of items could be obtained, we could devote a section of the magazine to them.

These small items may seem to be individually unimportant, but in the aggregate they show that the Chapters are active and that the Society as a whole is functioning. Your help is urgently solicited.

W. A. OLIVER, Editor

Thanksgiving

And therefore, I, William Bradford (by the grace of God today,
And the franchise of this good people), governor of Plymouth, say—
Through virtue of vested power—ye shall gather with one accord
And hold in the month of November, thanksgiving unto the Lord.

—MARGARET JUNKIN PRESTON

COST OF LIVING INDEX

The cost of living correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries is based upon the Consumer Price Index of the 1947-49 average as determined by the Bureau of Labor Statistics. On the 1947-49 base the correction factor for September, 1954, is 114.7.

For those who are still using the old schedule the correction factor is 191.8 based upon the 1935-39 average.

VOX SECRETARII

P. E. ROBERTS, Executive Secretary

Traveling Secretary

The Fall season is the time when travel is resumed. On Wednesday, October 20, your Executive Secretary began what was planned as an all-rail trip. The journey from Champaign to Waukegan with a stop in Chicago was as planned—via rail. At Waukegan, both Mr. Gunlock and Mr. Osborn were present at the Lake County Chapter meeting. Instead of returning to Chicago by North Shore Railroad, a pleasant trip was made by auto with Mr. Gunlock. The next morning, Thursday, Mr. Osborn landed at Meigs Airport on Chicago's Lakefront, and the trip to East St. Louis was made in his SeeBee. Time of departure: 12 noon, time of arrival: 2:30 p.m., distance: 280 miles, air speed 85 mph, headwind 14 mph. My slide rule must be broken! In any case, it was a beautiful day and a fast, most pleasant way to get from the Windy City to the home of the St. Louis Blues.

Missouri Society P. E.

The Missouri Society of Professional Engineers held its 18th Annual Meeting in St. Louis on October 21, 22, and 23. Your Executive Secretary had the pleasure and the opportunity of observing the conduct of a neighbor society's annual meeting. St. Louis' Engineer Mayor Tucker gave the opening address of welcome. NSPE's Paul Robbins followed with an interesting and instructive talk entitled "Unity Movement in NSPE." Mr. Robbins intentionally diverted from his subject to stress the importance of engineers interesting themselves in civic and political problems.

The luncheon speaker was NSPE President Clarence Shoch. Missouri has a new Executive Secretary, Paul N. Doll, who took charge on September 1. It was gratifying to be able to attend this meeting since it gave an opportunity to return the visit which MSPE President Hubler and St. Louis Chapter President Parmely made to ISPE's 69th Annual Meeting last March.

Advertising Sales Aid

Through the able assistance of State Advertising Chairman Ken Welton a brand new advertising sales aid is ready for distribution. The chart which was

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READ THE ADVERTISEMENTS

SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., at 614 East Green Street, Champaign, Illinois.
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drawn by Mr. Welton will be found elsewhere in this issue. The chart has been printed in pamphlet form with an ILLINOIS ENGINEER rate sheet and mechanical requirements on the other side. It is planned to invite all ILLINOIS ENGINEER advertisers that used space in the magazine during the past ten years to come in once again. The pamphlet has another use. It tells the numbers of Illinois Society members in public works activities, consulting, industrial, public utility and railroads, and educational activities. Engineers not included in these groups hold important positions in government and industry. For the above reasons it is a good membership tool. People like to be identified with and able to say that they associate with important people. Hats off to Ken Welton for a job well done for the Illinois Society.

Miscellany

Good news for those who have been promoting unity between engineers and engineering societies — W. H. "Pete" Wisely has been appointed Executive Secretary of the American Society of Civil Engineers. Pete has been Executive Secretary of the Federation of Sewage and Industrial Wastes Associations with offices in Champaign for the past ten years. This is an international association. Mr. Wisely will move his family to New York about December 1. Best wishes of the Illinois Society go with Pete. . . . Walter Hanson, for the past three years the chief bridge engineer for the Division of Highways, State of Illinois, has resigned his position to open a consulting office in Springfield. . . . Harold Sommerschild has formed a partnership with W. Lindsay Suter who is an architect. The firm will practice architecture and engineering with offices at 39 South LaSalle Street, Chicago. Best wishes of the Society go with Mr. Sommerschild. . . . Mark your ballot on the Co-Exploratory and Exploratory proposition at once and mail in the envelopes furnished, if you have not already done so. . . .

ROCKFORD LADIES AUXILIARY CHARTERED

(Prepared by P. E. ROBERTS, Executive Secretary)

On Wednesday, October 6, sixty-four ladies and their men assembled in the Y.M.C.A. Lodge and held the Charter Night of Unit Number Four, Ladies Auxiliary of the Illinois Society. Rockford Chapter President Royce Johnson presided and gave a good talk on the history and the objectives of the Illinois and National Societies.

Mr. Johnson asked that the chairman of the ladies nominating committee present the report of her committee. Nominations were called for from the floor and there being none, a motion was made, seconded and passed, that the temporary secretary cast an unanimous ballot for the entire slate of officers. Mr. Johnson introduced Mrs. Charles N. Debes as new Auxiliary President.

Vice-President Dwain Wallace with brief, but most appropriate, remarks presented the Charter to Mrs.

Debes. In her acceptance of the Charter, Mrs. Debes told a few of the plans of the newly organized group. Some plans for the entertainment of the ladies who attend the 70th Annual Meeting in Rockford next March will be revealed later. One most worthwhile project is the coffee hour for the participants of the Rockford and Rock River refresher course class members to acquaint them with the aims of the Illinois Society and invite their wives to become members of the Auxiliary.

International Harvester showed their color sound film, "The Man with Many Hands," a pictorial record of the large Canadian power development to refine aluminum bars from bauxite by using low-priced hydroelectric power. It is an excellent film.

Congratulations and best wishes go to Unit Number Four of the growing Ladies Auxiliary organization.

CHAPTER NOTES

DuKane Chapter held their Ladies' Night on September 16. Guests and members enjoyed movies of a tiger hunt in India taken by Mr. Carl Kienzle who recently returned from that country.

President C. W. Klassen addressed the Joliet Chapter on September 21. His subject was, "Environment and Engineers." Certificates of Appreciation were presented to twelve past Chapter Presidents by Mr. Klassen.

On September 28, Illinois Valley Chapter had as their speaker Mr. Dalton Rogers, who has been with the Atomic Energy Commission for the past thirteen years. He spoke on the present and future of that form of energy.

On October 28, Central Illinois Chapter celebrated their Ladies' Night by hearing Dr. M. J. Thomas, Assistant Manager of Market Development at Staley's, speak on "New Research Developments in Corn and Soybeans."

ADVERTISING COMMITTEE ACTIVITIES

(See opposite page)

The primary purpose of the Advertising Committee is to obtain advertising for the ILLINOIS ENGINEER. Recent activities on the part of the Committee, K. E. Welton, Chairman, are of interest to the entire membership, first, because of the importance of such activity to society welfare and, second, because Mr. Welton has compiled some pertinent data concerning the occupational activities of the society membership. This last has been diagrammed and is published for purposes of information on the opposite page.

This diagram and additional information concerning advertising rates, advertisement sizes, copy deadline, etc., has been printed on an attractive leaflet for distribution to interested persons. Key personnel throughout Illinois industry will be included in the distribution. Copies of the leaflet may be obtained by addressing a request to the Illinois Society of Professional Engineers, 614 East Green Street, Champaign, Illinois.

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS

YOUR AD IN THE
ILLINOIS ENGINEER
WILL REACH ENGINEERS IN

PUBLIC WORKS ACTIVITIES

47.5% of membership includes the Illinois Chief Highway Engineer, his District Engineers and their staffs; each County Superintendent of Highways and his staff; the Illinois Chief Sanitary Engineer and his staff; Chairman of C.T.A. and his staff; Public Works Engineer officials in every major Illinois municipality (Chicago Public Works Commissioner is an officer in I.S.P.E.) and their staffs; Superintendents of Staffs; Superintendents of Waterworks, Sewage Treatment Plants and other municipal utilities from every part of Illinois; Engineers in prominent construction firms throughout the State; Engineers with equipment and material research organizations.

CONSULTING ACTIVITIES

22.2% of membership includes Firm Members and their staffs of practically all prominent Architectural, Civil, Electrical, Hydraulic, Industrial, Mechanical, Sanitary, Structural, and Transportation Consultants throughout the State.

INDUSTRIAL ACTIVITIES

18.5% of membership includes Engineering Executives and their staffs in major construction material producing firms, equipment manufacturing companies, electrical and mechanical specialty manufacturers, and practically every other major manufacturing and processing firm using engineering talent throughout the State.

PUBLIC UTILITY AND RAILROAD ACTIVITIES

7.0% of membership includes Executive Engineers and their staffs from practically all Public Utilities and important Railroads in the State.

EDUCATIONAL ACTIVITIES

4.8% of membership includes Prominent Engineering Educators from Bradley Tech., Illinois Tech., University of Illinois, and Northwestern University.

Past Presidents include Chief Engineers of Railroads, City Engineers, Chief Engineers of Industrial Plants, County Superintendents of Highways, Consulting Engineers, Chief Engineers of Utilities, Prominent Contractors, Engineering School Faculty Members, Chairman of Chicago Transit Authority, and the Chicago Commissioner of Public Works. Present President is the Chief Sanitary Engineer, State of Illinois.

NOTE: The man who makes the engineering decisions, writes the specs, or purchases equipment will see your ad in the ILLINOIS ENGINEER.

"PROFESSIONAL RECOGNITION NIGHT"**Program Brings Out Large Attendance
in St. Clair Chapter**

(Prepared by R. G. BRICHLER)

The need of a program instilled with an atmosphere of public relations and fellowship was foremost in the minds of the members of St. Clair Chapter in the establishment of "Professional Recognition Night."

Seeking acquaintanceship with the many civic, professional and engineering friends, the St. Clair group sent out many invitations for their cocktail-dinner-speaking-fellowship party which was held October 21 at Broadview Hotel, in East St. Louis. The meeting was well received, resulting in 188 reservations. Those who were in attendance are looking forward to an annual repeat of the affair.

The occasion was a fitting commemoration to "Light's Diamond Jubilee" for, on that date 75 years ago, Thomas A. Edison invented the incandescent lamp.

The highlight of the meeting was the demonstration and explanation of the "Time Compressor" by Dean William L. Everitt of the University of Illinois, co-inventor of the fabulous device.

The invocation was given by Rev. Whitlock, Pastor of Signal Hill Methodist Church. Larry J. Keenan, Chapter Representative, gave an excellent informative speech on the organization and activities of our State and National Societies. Lawrence E. Miller, Director of Civil Defense of East St. Louis, explained the new "dispersal plan" in case of enemy attack, in which the Chapter pledged their support.

P. E. Roberts, Executive Secretary of our State Society, and Lee I. Osborne, Representative to our National Society, as well as a number of mayors and other titular leaders of surrounding communities, were honor guests at the affair.

Past President Raymond Brichler presented Dean William L. Everitt, University of Illinois College of Engineering, who told those assembled of the intricacies of the construction of the "Time Compressor." A demonstration of the various uses of the machine plus the possible use in a new technic of rapid teaching was discussed. At the close of the talk, President Arthur Feickert called for questions from the floor. The interest stimulated by Dean Everitt's talk was evidenced by the fact that the group kept him answering questions for a considerable time after the end of the meeting.

It is interesting to note that there were about forty prospective members in the audience and that at the same time the men were meeting in the top floor Ballroom of the Hotel, the ladies were also having a meeting to view Ralph Hodges' beautiful picture slides.

Manuel Garcia, the able St. Clair Chapter Secretary, Dave Johnston, Bill Parsons, and many others contributed to the success of the affair.

Obituaries**Russell W. Carter**

Mr. Russell W. Carter, member I. S. P. E., N. S. P. E., of Decatur, died on July 20, 1954.

During World War I Mr. Carter served with the Corps of Engineers. During World War II, Mr. Carter was chief air raid warden of Macon County and he has been active in Civil Defense in recent years.

He was a past commander of Castle Williams American Legion Post 105, a member of the Legion 40 & 8, of the Honor Guard of the Legion and had served as a Boy Scout councilman.

He was a member of the First Methodist Church and the Methodist Men's Club.

Mr. Carter was married in Decatur on August 8, 1922, to Ruth Rockwell, who survives.

Also surviving are two sons, Robert Rockwell Carter, with the Army at Fort Sill, Oklahoma, and Russell W., Jr., Springfield; his mother, Mrs. Maude Good, Decatur, and a sister, Mrs. Rachel McCutchan, Long Beach, California.

Floyd Troxel

Mr. Floyd E. Troxel, member I. S. P. E., N. S. P. E., died on August 25, 1954, at St. Mary's Hospital, Decatur.

Mr. Troxel was born at Minonk June 1, 1890, and was married to Nellie M. Cox, Arcola, December 24, 1920. The couple has lived in Decatur 15 years.

An alumnus of the University of Illinois, class of 1916, Mr. Troxel practiced the mechanical engineering profession at Ridgway, Pennsylvania, Mattoon, and Decatur, where he was employed by the Wagner Malleable Iron Co. He was a member of the Illinois and National Society of Professional Engineers, and served as secretary of the Central Illinois Chapter from 1948 to 1951.

For many years Mr. Troxel was interested in Boy Scout work, and helped to organize the movement in his Pennsylvania district 36 years ago. He was past president of the Ridgway, Pa., Kiwanis International, as well as the Social Science Club of that city.

Surviving are his wife; a son, Floyd D., of Macon; and two brothers, Roy W., of Chicago, and Harley A., of Flint, Michigan.

The many members of I. S. P. E. to whom Mr. Carter and Mr. Troxel were known will regret the loss to the Society resulting from their deaths.

**70th Annual Meeting
Hotel Faust, Rockford
March 31, April 1 and 2, 1955**

Omaha Meeting of N.S.P.E. Board of Direction

Eager Minds in N.S.P.E. Oct. 15 and 16, 1954

G. L. DeMENT, National Director

All during the Directors' meeting of the National Society of Professional Engineers at Omaha, I had a feeling that all the Committee Chairmen, the Officers and the staff of N.S.P.E. certainly were pursuing their duties in between meetings of the Board of Directors with eager minds.

I am always amazed at the amount of work that is done by the Committees between meetings of the Board of Directors.

A particularly hard working Committee is the N.S.P.E. Public Relations Committee. This Committee has Co-Chairmen Anatole Gruehr and G. W. McCullough. Mr. Gruehr has as his particular assignment the public relations in regard to Engineers Week.

"Engineering—Builder of a Brighter Future" is the theme for Engineers Week in 1955. Engineers Week will be held during the week of February 21st, and a particular emphasis will be placed on the holding of dinners on Thursday, February 24, all over the country. Each chapter should plan some sort of a dinner for this day; and if sufficient dinners are held throughout the country, it can be proclaimed nationally. The theme is certainly a challenging one, and all engineers who have kept abreast of the magnificent things that are happening technically in this country should be proud to proclaim themselves as engineers. Chapter presidents should send the name of their chapters public relations chairmen to the National Headquarters, 1121 15th Street, Northwest, Washington, D. C. This will assist the staff to provide public relations material to the proper person.

Engineers in Industry

The Committee on Engineers in Industry has held seven meetings starting with December 5, 1953, and concluding with August 22, 1954. The committee met with management in industry and discussed problems of management and of all phases of engineering applied to management. A booklet describing some of these discussions and some of the results of the discussions will be in final shape for publication about December 5, 1954. These discussions were very informative and certainly provided management with the information that is needed for the proper utilization of engineers in industry.

There was an excellent report by Clark Dunne, Director of Engineering Research, at Oklahoma A & M on Unity. The essence of the report was that the designation of any one of many agencies as the "Unity Organization" would not necessarily accomplish unity. The committee recommends adoption of a vigorous unity program in which N.S.P.E. would provide active cooperation with all other engineering societies in programs having a professional objective on the National,

State and local levels. N.S.P.E. organizations should provide cooperation regardless of which agency initiates the program.

Several areas of effort show positive action as far as N.S.P.E. is concerned. N.S.P.E. is represented on the E. J. C. Survey Committee, as a representative on the E.J.C. Labor panel which is charged with the duty of representing the engineering profession on all matters relating to federal labor legislation and is cooperating on activities relating to the engineer in industry. In another area, N.S.P.E. is actively cooperating with the Engineers Counsel for Professional Development. N.S.P.E. is also cooperating actively with the National Counsel of State Boards of Engineering Examiners. These activities are carried on in such a way that my theme of Eager Minds can very definitely apply to the Unity Committee's activities.

Another report, that indicated eager and aggressive minds were at work this past year, brought out the activities in Ohio regarding the unionization of engineers on the Ohio Turnpike construction. The Operating Engineers Union tried to shut down a job because a young engineer would not join their Union. Personal solicitation in Ohio among engineers got \$2,200.00 which was used for legal counsel to fight the case. In cooperation with the Ohio Society, our Legislative Analyst, Milt Lunch, provided valuable advice and counsel to the Ohio group in bringing before the National Labor Relations Board the situation as it developed in Ohio. An important decision in this matter was made by N.L.R.B. and will go far to overcome any future attempts by the Operating Engineers Union to unionize young engineers in Ohio.

The Headquarters Building program is going forward, and it is possible that our Headquarters Building in Washington will be completed and ready for occupancy some time late in the Fall of 1955. It is intended to have a four-story building with a basement at an estimated cost of \$375,000.00. N.S.P.E. will occupy the second and third floors and the basement and will rent two floors at the rate of \$8,000.00 per floor. There was such an active interest throughout the country in the bonds that would be sold to build the building by members of N.S.P.E., that it was decided that bonds will be offered to all members of N.S.P.E. first come, first served in a denomination of \$100.00. This will allow all members of the society to participate in this program in one way or another.

It was announced that the National Headquarters maintains a listing of all consulting engineers in the Washington Office which can be referred to by any organization. This list is prepared geographically and is

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given to those that make inquiry, without recommendation as to the qualifications of each consulting engineer. It was agreed that this list should not be published. Any consulting engineers that desire to have their names listed in Washington, should so inform the staff of the society.

It was announced that a compendium of registration laws for each state in the country is prepared and is now being sold to the members of N.S.P.E. This compendium will be revised every ten years. Anyone interested, should contact the National Headquarters.

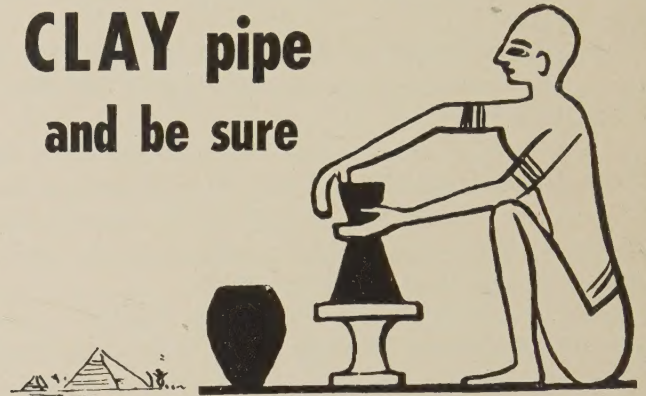
The Constitution and By-Laws Committee presented an amendment to Article 3 of the Constitution to read in part as follows: "Every professional engineer member of such member state society shall be a member of the National Society and every junior member or engineer-in-training member of such member state society shall be a junior member of the National Society." The other necessary changes to correspond with this change in the constitution will be made in other sections. This proposed amendment was passed by the Board of Direction and now will be submitted to the memberships of the society for approval. If the membership of the National Society of Professional Engineers approves this change in the constitution, the engineer-in-training designation on a national level will be changed to junior member.

It was reported that the advertising revenue has in-

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creased from \$6,383.50 in 1953 to \$10,130.00 in 1954 for the first seven months of each year, and the advertising has increased by pages from 24 $\frac{5}{8}$ pages in 1953 to 47 $\frac{7}{12}$ pages in 1954. This is very definite progress, and it is felt that with proper field representation which the society has in the Austin LeStrange Organization the combined efforts of the society and the advertising agency should produce results of a highly satisfactory character.

I would like to sum up my report by mentioning the main speakers for some of the functions. Under Secretary of Commerce, Walter Williams, was the featured speaker at the Friday evening banquet. Mr. Henry C. Woods, Chairman of the Board of Sahara Coal Company, was the speaker at a luncheon meeting. I mention these two men to show the caliber of speakers that N.S.P.E. is now attracting to its meetings. The very fact that men of this stature will speak to N.S.P.E. indicates the influence the society is having throughout the country.

I hold every man a debtor to his profession;
from the which as men of course do seek to re-
ceive countenance and profit, so ought they of
duty to endeavor themselves by way of amends
to be a help and ornament thereunto.

Sir Francis Bacon

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ENGINEERS MAKE GOOD AS HUSBANDS

I.I.T. Report

Illinois Institute of Technology should be proud of the training received by young men, at this school, who contemplate matrimony.

"Engineers make good husbands," says Earl C. Kubicek, director of alumni relations and placement, who conducted a survey of classes graduated since 1929, sending questionnaires to 2,980 alumni, 90 per cent being engineering graduates. More than half of this number sent back replies.

No divorces were reported by three of the five classes included in the samplings of fifth year classes beginning with 1929.

Returns revealed that approximately 90 per cent of the members of the classes of 1939, 1944, and 1949 were

married, but that none was divorced. One divorce was reported in the class of 1929 and 2 per cent of the 1934 graduates were divorced.

"This is significant in view of the fact that one of every four marriages in the United States ends in divorce," Kubicek pointed out.

One of the contributing factors toward the low divorce rate, he explained, may be the relatively high level of security enjoyed by engineers.

"There has been a great demand for engineers in industry and engineering salaries have been increasing steadily for more than fifteen years," Kubicek said.

"Because they are better off financially, there may be less friction in their marriages over money problems, one of the major factors in divorce."

Engineering Societies Personnel Service, Inc.

New York Chicago Detroit San Francisco
84 East Randolph Street, Chicago 1, Ill. STate 2-2748

These items are from information furnished by the Engineering Societies Personnel Service, Inc., Chicago. This SERVICE is operated on a co-operative non-profit basis by the Illinois Society of Professional Engineers, and the national societies of Civil, Electrical, Mechanical and Mining and Metallurgical Engineers. Apply to ESPS, Chicago and the key number indicated. Prepared ENGINEERS AVAILABLE advertisements limited to 40 words, with typed resumé attached may be submitted to ESPS Chicago by members of the Illinois Society of Professional Engineers at no charge.

If placed in a position as a result of an Engineers Available or Position Available advertisement, applicants agree to pay the established placement fee. These rates are available on request and are sufficient to maintain an effective non-profit personnel service. A weekly bulletin of positions open is available to subscribers. Apply E. S. P. S., Chicago.

OVER THE MANAGER'S DESK November 1954

November gives us three different phases of life. The first is election where an American has the opportunity to select a candidate for specific offices. The second is Armistice Day, where we honor those who have served us in the past. The third is Thanksgiving, where we sit back and count our blessings.

Are you as an employer or as an employee in a position where you can count your blessings as far as your engineering accomplishments are concerned; are you in a position where you are honoring the past instead of the present and the future; or are you ready to select a specific candidate or job to do better engineering? If you have any doubt at all, better contact our office for THAT engineer you need or The particular job you want to better yourself.

BHA

MEN AVAILABLE

Factory Mgr. 31. Nineteen mos. doing job eval., incentives, inv. and prod. control and procedures. Nineteen mos. supervision of operations and personnel in chemical plant. 45 mos. as ind. engineer and warehouse manager for rubber plant. \$8500. U.S. 933 PE
Sales Engr. E.E. 27. Four yrs. doing design, installation, servicing of eqpt. and application of power line relaying schemes. \$5600. Midwest. 994-PE

Development. E.E. 26. 2 yrs. design and test of phonograph and tape recorder electronic systems and transducers. \$5000. Chicago. 995-PE

Development. E.E. 27. 2 yrs. design of test eqpt. and procedures for vibrators and choppers. Three yrs. sale and promotion of electrical control eqpt. \$7000. Chicago. 996 PE

Development. Physics. 32. Five mos. repair and installation of electronic eqpt. Three and one-half yrs. making special studies on the operation and improvement of pipeline systems. \$4800. Midwest. 997-PE

Chief Engr. M.E. 47. Fourteen yrs. resp. for costs and design of maintenance, alterations and repairs. Supervised engineering and drafting dept. \$9600. Midwest. 998-PE

Plant Engr. M.E. 30. Six yrs. complete plt. layouts of bakery plants. This included bldg. and eqpt. location dwgs., preliminary constr. dwgs., and design of plt. services. \$7500. Chicago. 999-PE

Project Engr. M.E. 37. Three yrs. design and develop project from start to customer accept. Sixteen mos. design component parts for tractors. \$6300. Chicago. 1-PE

Chief Engineer. 46. Ten yrs. design and development of packaging, bakery eqpt. and machy. \$15,000. Midwest. 2-PE

Factory Mgr. 37. Seventeen yrs. resp. for operation, costs, control and production of steel equipment. \$8000. Midwest. 3-PE

Inspector. M.E. 26. Fifteen mos. development of printing and ticket machinery. Two yrs. inspector doing quality control and personnel. One yr. design work on construction hoists. \$5500. Chicago. 4-PE

Ind. Mgmt. B.Ph. 38. Twelve yrs. time studies, cost and production standards, maintain incentive program, plant layout, job evaluation and production control. \$6500. Chicago. 5-PE

Constr. Supt. M.C.E. 41. Nine yrs. charge of heavy construction oil refinery, housing office buildings and dam. \$12,000. U.S. 6-PE

Design Engr. M.E. 35. Nineteen mos. resp. for purchasing for X-ray mfrgr. Nine mos. mechanical design of electronic controls. Five yrs. product design from idea to production. \$8400. U.S. 7-PE

POSITIONS AVAILABLE

Designer. C.E. Age: over 21. At least 10 yrs. exp. in structural design. Know: structural design in reinforced concrete, wood and steel. Duties: Design of various types and kinds of waterway control structures in reinforced concrete, wood and steel. Sal.: \$440-\$660. Loc.: Illinois. C-2236(a)

Executive V. P.-Production. Age: 40-55. 5 plus yrs. exp. in executive capacity in rubber products field. Knowledge of process plant production. Duties: in complete charge of administration, production engineering and finance for a manufacturer of synthetic rubber products. For a rubber mfrgr. Sal.: \$15,000. Employer will pay fee. Location: Chicago. C-2249

Designer. E.E. 5 plus yrs. exp. in dry type power and distribution transformers. Duties: designing dry type power and distribution transformers. For a manufacturer. Sal.: Up to \$8000. Employer will pay half of fee. Loc.: Chicago. C-2250

Transformer Chief Engineer. E.E. 10 plus yrs. exp. in design of radio, mercury lighting or power transformers. Duties: chief engineer—supervising design and development of radio, mercury lighting and power transformers. For a manufacturer of transformers. Sal.: \$8000-\$14,000. Employer will negotiate fee. Location: Florida. C-2251

Methods Engineer. M.E. or I.E. 5 plus yrs. exp. in manufacturing methods work in large mass production plant. Know: of automatic processes of assembly automation. Duties:

analysis and elimination of conditions leading to excess non-standard hour. Manufacturing engineering on varied and special problems. For a manufacturer of electrical equipment. Sal.: up to \$600 per mo. Location: Ohio. C-2255(a)

Electronic Engineer. E.E. Physics. 3 plus yrs. exp. in electronic weapons' work analog or digital computers or similar fields. Duties: surveying existing weapons' systems block diagramming study of math. to systems and/or computer tracking systems development and planning electronic system. For a mfr. of electrical equipment. Sal.: \$142-\$182 per week. Location: Maryland. C-2255(b)

Development Engineer. E.E. Com. or Physics. 5 plus yrs. exp. in transmission codes and systems for high-speed transmissions. Duties: establishing transmission codes and systems for transmission at highest speed with maximum reliability and minimum bandwidth. Complex information over telephone lines and micro-wave communication facilities. For a mfr. of electrical eqpt. Sal.: up to \$182 per week. Location: Maryland. C-2255(c)

Electro-Magnetic Development. Ph.D. E.E. Previous exp. desirable, but not necessary. Duties: applying physical principles and knowledge of circuit theory to investigations leading to improved magnetic materials used in electro-magnetic devices. For an elec. eqpt. mfr. Sal.: up to \$750 per mo. Location: Pennsylvania. C-2255(d)

Metallurgist. Met. Eng. 2 plus yrs. exp. as metallurgist for producer or fabricator in non-ferrous field. Duties: consulting work with design and mfg. personnel on metals application and processing, preparation on materials and process specifications. For a mfr. of elec. eqpt. Sal.: up to \$600 per mo. Location: Pennsylvania. C-2255(f)

El. Circuitry Development. M.S. or Ph.D. E.E. Duties: advanced electrical circuitry development for solid state and magnetic devices covering new techniques involving application problems. For a mfr. of elec. equipment. Sal.: up to \$700 per mo. Location: Pennsylvania. C-2255(g)

Chemical Development-Chem. Eng. 3 plus yrs. exp. in molding of glass reinforced products and preferably in supervisory position. Duties: heading up glass reinforced and mineral filled plastics and laminates activities. Coordinating work of several divisions of company. For mfr. of elec. equipment. Sal.: up to \$750 mo. Location: Pennsylvania. C-2255(h)